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Dated: 2-6-06 Signature: Maura A. Gallagher
(Maura A. Gallagher)

TFW *2131\$*
Docket No.: BBNT-P01-134
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Brig B. Elliott

Application No.: 09/944328

Confirmation No.: 1878

Filed: August 31, 2001

Art Unit: 2131

For: QUANTUM CRYPTOGRAPHIC KEY
DISTRIBUTION NETWORKS WITH
UNTRUSTED SWITCHES

Examiner: J. E. Jackson

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

02/10/2006 BABRAHA1 00000023 181945 09944328
01 FC:1806 180.00 DA

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Supplemental Information Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

The following co-owned pending patent applications may include subject matter similar to that disclosed in this application. One or more office actions may have issued in these cases.

| <u>Application No.</u> | <u>Title</u> | <u>Filed</u> | <u>Docket No.</u> |
|------------------------|--|-------------------|-------------------|
| 09/943709 | Systems And Methods For Path Set-Up In A Quantum Key Distribution Network | August 31, 2001 | BBNT-P01-139 |
| 10/197659 | Key Distribution Center For Quantum Cryptographic Key Distribution Networks | July 17, 2002 | BBNT-P01-164 |
| 10/218652 | Methods And Systems For Distributing A Group Key In A Quantum Cryptographic Key Distribution Network | August 14, 2002 | BBNT-P02-164 |
| 10/271103 | Systems And Methods For Framing Quantum Cryptographic Links | October 15, 2002 | BBNT-P01-231 |
| 10/271150 | Quantum Cryptographic System With Photon Counting Detector | October 15, 2002 | BBNT-P01-188 |
| 10/289192 | Systems And Methods For Implementing A Unified Framework For Quantum Cryptographic Protocols | November 6, 2002 | BBNT-P01-189 |
| 10/325325 | Systems And Methods For Implementing Adaptive Quantum Cryptography | December 18, 2002 | BBNT-P01-219 |
| 10/324040 | Key Transport In Quantum Cryptographic Networks | December 20, 2002 | BBNT-P01-210 |
| 10/324355 | Systems And Methods For Managing Quantum Cryptographic Networks | December 20, 2002 | BBNT-P01-218 |
| 10/384502 | Autoconfiguration Via Quantum Cryptographic Link Framing | March 7, 2003 | BBNT-P01-209 |
| 10/394974 | Systems And Methods For Implementing A Sifting Protocol For Quantum Cryptography | March 21, 2003 | BBNT-P02-189 |
| 10/402120 | Quantum Cryptography Via Phase-Entangled Encoding | March 28, 2003 | BBNT-P01-229 |
| 10/434248 | Quantum Cipher Key Distribution Via Phase-Entangled Encoding Of Key Symbols | May 7, 2003 | BBNT-P01-230 |

| <u>Application No.</u> | <u>Title</u> | <u>Filed</u> | <u>Docket No.</u> |
|------------------------|---|-------------------|-------------------|
| 10/462292 | Automatic Control Of Quantum Key Distribution | June 16, 2003 | BBNT-P01-240 |
| 10/462400 | Quantum Cryptography Based On Phase Entangled Photons | June 16, 2003 | BBNT-P01-241 |
| 10/716078 | Systems And Methods For Implementing Path Length Control For Quantum Cryptographic Systems | November 18, 2003 | BBNT-P02-097 |
| 10/716747 | Systems And Methods For Implementing Training Frames For Quantum Cryptographic Links | November 18, 2003 | BBNT-P02-231 |
| 10/786314 | Systems And Methods For Reserving Cryptographic Key Material | February 26, 2004 | BBNT-P01-265 |
| 10/795313 | Quantum Cryptography With Multiparty Randomness | March 9, 2004 | BBNT-P01-268 |
| 10/795398 | Simple Untrusted Network For Quantum Cryptography | March 9, 2004 | BBNT-P01-259 |
| 10/797140 | Systems And Methods For Implementing Adaptive Training For Quantum Cryptography | March 11, 2004 | BBNT-P03-231 |
| 10/799177 | Systems And Methods For Implementing Routing Protocols And Algorithms For Quantum Cryptographic Key Transport | March 12, 2004 | BBNT-P01-015 |
| 10/800481 | Systems And Methods For Implementing An Error Detection And Correction Protocol For Quantum Cryptography | March 15, 2004 | BBNT-P02-021 |
| 10/803509 | Systems And Methods For Quantum Cryptographic Key Transport | March 18, 2004 | BBNT-P01-258 |

In accordance with 37 CFR 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to be an

admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Supplemental Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

Please charge our Deposit Account No. 18-1945 in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. BBNT-P01-134. A duplicate copy of this paper is enclosed.

Dated: February 6, 2006

Respectfully submitted,

By 

Edward A. Gordon

Registration No.: 54,130

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Attorneys/Agents For Applicant



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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|---|---|----|---|--------------------------|-----------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 09/944,328 |
| | | | | Filing Date | August 31, 2001 |
| | | | | First Named Inventor | Brig B. Elliott |
| | | | | Art Unit | 2131 |
| | | | | Examiner Name | J.E. Jackson |
| Sheet | 1 | of | 3 | Attorney Docket Number | BBNT-P01-134 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
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| | AB* | US-4,649,233 | 03-10-1987 | Bass et al. | |
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| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|--------------------------|---|-----------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city | T ² |
| Examiner Signature | Date Considered | | |

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|---|---|----|---|--------------------------|-----------------|
| Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | 09/944,328 |
| | | | | Filing Date | August 31, 2001 |
| | | | | First Named Inventor | Brig B. Elliott |
| | | | | Art Unit | 2131 |
| | | | | Examiner Name | J.E. Jackson |
| Sheet | 2 | of | 3 | Attorney Docket Number | BBNT-P01-134 |

| | | and/or country where published. | |
|----|--|---------------------------------|--|
| CA | "Quantum key distribution: Real-time compensation of interferometer phase drift," NTNU Department of Physical Electronics, pages 1-45. | | |
| CB | Bennett, C.H., et al., "Experimental Quantum Cryptography," Journal of Cryptography's special issue after Eurocrypt '90, 28 pages (September 1991). | | |
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| CD | Brassard, G., et al., "Cryptology Column -- 25 Years of Quantum Cryptography," Pragocrypt, pp. 13-24 (July 1996). | | |
| CE | Brassard, G., et al., "Secret-Key Reconciliation by Public Discussion," Department IRO, Universite de Montreal, 14 pages (1994). | | |
| CF | Ekert, A.K., "Quantum Cryptography Based on Bell's Theorem," Physical Review Letters, 67(6):661-663 (1991). | | |
| CG | Elliott, B.B., et al., "Path-length control in a interferometric QKD link," Proc. of SPIE, Vol. #5101, 11 pages (April 21, 2003). | | |
| CH | Elliott, C., "Building the quantum network," New J. Phys., 4:46 (2002). | | |
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| CO | Mo, X., et al., "Intrinsic-Stabilization Uni-Directional Quantum Key Distribution Between Beijing and Tianjin," Key Lab of Quantum Information, Department of Electronic Engineering and Information Science, University of Science and Technology of China, Hefei, Anhui. | | |
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| CQ | Ribordy, G., et al., "Long-distance entanglement-based quantum key distribution," Physical Review A, Volume 63, 012309-1-012309-12 (2001). | | |
| CR | Scarani, V., et al., "Quantum Cryptography Protocols Robust Against Photon Number Splitting Attacks for Weak Lazer Pulse Implementations," Physical Review Letters, 92(5):057901-1 through 057901-4 (February 2004). | | |
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| CW | Tanzilli, S., et al., "PPLN waveguide for quantum communication," Eur. Phys. J.D., 18:155-160 (2002). | | |
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| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

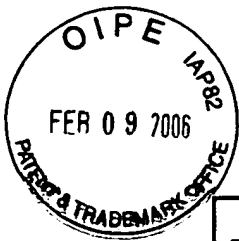
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| | | | | Application Number | 09/944,328 |
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| | | | | First Named Inventor | Brig B. Elliott |
| | | | | Art Unit | 2131 |
| | | | | Examiner Name | J.E. Jackson |
| Sheet | 3 | of | 3 | Attorney Docket Number | BBNT-P01-134 |

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|--|-----|---|--|
| | CY | Degermark, M., et al., "Small Forwarding Tables for Fast Routing Lookups," ACM, pages 3-14 (1997). | |
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| | CA1 | Garcia-Luna-Aceves, J.J., et al., "Distributed, Scalable Routing Based on Vectors of Link States," IEEE Journal on Selected Areas in Communications, 13(8):1383-1395 (October 1995). | |
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| | CG1 | Waldvogel, M., et al., "Scalable High Speed IP Routing Lookups," ACM, pages 25-36 (1997). | |
| | CH1 | Bowers, J.E., "Optical Network and Component Trends," UCSB, NSF Workshop, 51 pages. | |
| | CI1 | Honjo, T., et al., "Differential-phase-shift Quantum Key Distribution," NTT Technical Review, 2(12):26-33 (Dec. 2004). | |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

| | | | |
|-----------------------|--|--------------------|--|
| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|



| | | | | | |
|---|--|--------------------------|-----------------|---------------------|--------------|
| FEE TRANSMITTAL For FY 2005 <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 | | Complete if Known | | | |
| | | Application Number | 09/944328 | | |
| | | Filing Date | August 31, 2001 | | |
| | | First Named Inventor | Brig B. Elliott | | |
| | | Examiner Name | J. E. Jackson | | |
| TOTAL AMOUNT OF PAYMENT | | (\$) | 180.00 | Attorney Docket No. | BBNT-P01-134 |

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 18-1945 Deposit Account Name: Ropes & Gray LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
| | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 | |
| Design | 200 | 100 | 100 | 50 | 130 | 65 | |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 | |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | |

2. EXCESS CLAIM FEES

| Fee Description | Fee (\$) | Small Entity Fee (\$) |
|--|----------|-----------------------|
| Each claim over 20 (including Reissues) | 50 | 25 |
| Each independent claim over 3 (including Reissues) | 200 | 100 |
| Multiple dependent claims | 360 | 180 |

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|----------------------|---------------------|-----------------|----------------------|----------------------------------|-----------------|----------------------|
| <u>Total Claims</u> | <u>Extra Claims</u> | <u>Fee (\$)</u> | <u>Fee Paid (\$)</u> | <u>Multiple Dependent Claims</u> | <u>Fee (\$)</u> | <u>Fee Paid (\$)</u> |
| _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| <u>Indep. Claims</u> | <u>Extra Claims</u> | <u>Fee (\$)</u> | <u>Fee Paid (\$)</u> | | | |
| _____ | _____ | _____ | _____ | | | |

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| _____ | _____ | _____ / 50 (round up to a whole number) x | _____ | _____ |

4. OTHER FEE(S)

| | Fees Paid (\$) |
|---|----------------|
| Non-English Specification, \$130 fee (no small entity discount) | |
| Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement | 180.00 |

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|---------------------|------------------|-----------------------------------|------------------|
| SUBMITTED BY | | | |
| Signature | | Registration No. (Attorney/Agent) | 54,130 |
| Name (Print/Type) | Edward A. Gordon | Telephone | (617) 951-7066 |
| | | Date | February 6, 2006 |

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 2-6-06 Signature: Maura A. Gallagher (Maura A. Gallagher)